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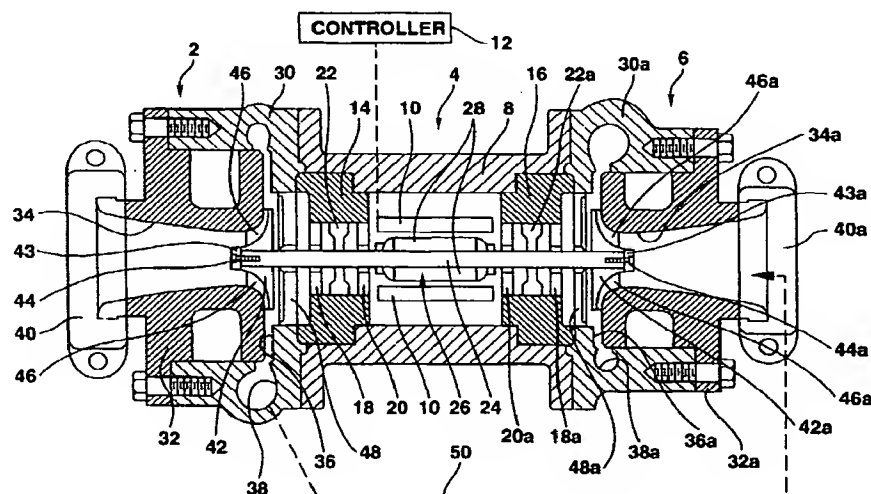
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### (54) Direct drive compressor assembly

(57) A centrifugal compressor assembly, especially one having two or more stages, comprises a first compressor casing (30, 32) having a fluid inlet (40) and a fluid outlet (38) and a first impeller (42) rotatable within the first compressor casing (30, 32). The assembly further comprises as second compressor casing (30a, 32a) having a fluid inlet (40a) and a fluid outlet (38a) and a second impeller rotatable (42a) within the second com-

pressor casing (30a, 32a). Drive for the compressors is provided by a switched reluctance motor (4) disposed between the first and second compressor casings (30, 30a, 32, 32a) and comprising a stator (10) and a rotor (26) rotatable within the stator (10). A drive shaft (24) is provided, wherein the first impeller (42), second impeller (42a) and the rotor (26) are mounted on the drive shaft (24) and rotatable therewith.



**FIG. 1**



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## EUROPEAN SEARCH REPORT

Application Number  
EP 00 30 2593

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Place of search MUNICH		Date of completion of the search 30 November 2001	Examiner Fistas, N
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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